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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/664,334	09/17/2003	Scott Chiu	P16585	4154
28062 7590 11/01/2007 BUCKLEY, MASCHOFF & TALWALKAR LLC 50 LOCUST AVENUE			EXAMINER	
			JAMAL, ALEXANDER	
NEW CANAA	N, CT 06840		ART UNIT PAPER NUMBER	
			2614	
•			<u></u>	·
			MAIL DATE	DELIVERY MODE
			11/01/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary		10/664,334	CHIU ET AL.			
		Examiner	Art Unit			
		Alexander Jamal	2614			
Dorlad fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address					
Period for Reply						
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DA nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status			•			
1)⊠	Responsive to communication(s) filed on <u>21 August 2007</u> .					
2a)⊠	This action is FINAL . 2b) ☐ This action is non-final.					
3) 🗌	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	ion of Claims					
4)	4) Claim(s) is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)	5) Claim(s) is/are allowed.					
6)⊠	Claim(s) <u>1-26</u> is/are rejected.	•				
7)	Claim(s) is/are objected to.					
8)□	Claim(s) are subject to restriction and/or	r election requirement.				
Applicati	ion Papers					
. 9)	The specification is objected to by the Examine	r.				
	10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority ι	ınder 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
A44a-b	4(a)					
Attachmen 1) Notice	et(s) ce of References Cited (PTO-892)	4) Interview Summary	(PTO-413)			
2) Notic	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate			
	mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	5) Notice of Informal P 6) Other:	Patent Application			

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1,2,5-10,13-20,23-26 rejected under 35 U.S.C. 102(e) as being anticipated by Krone et al (7003023).

As per claim 1, Krone discloses (Fig. 2), line side 226 and system side 225. They are coupled via isolation barrier 209,210. The system side has first and second clock drivers 214. Krone discloses that the clock signals may implement a differential signal (Col 8 lines 1-6) using complementary signals. Examiner notes (Col 13 line 64 to Col 14 lines 15-35) and Fig. 6b, which show the use of the complementary signals acting as a differential signal. In a differential signal comprised of two complementary signals as implemented by Krone, the signals would add up to a constant voltage value, with one version being the inverted version of the other.

As per **claim 9**, it is rejected as per the claim 1 rejection. Additionally (Col 8 lines 25-40) disclose the use of integrated circuits to implement the function shown in Fig. 2, including driver 214 (second IC) and block 216 (first IC).

As per claims 15,19, it is rejected as per the claim 9 rejection.

As per **claims 2,10,17,20**, complementary signals comprising a differential signal implemented by Krone would have 1 wave (180 degrees out of phase) inverted from the other one.

As per claims 5,18,23, capacitors 209,210 couple the clock signals.

As per **claims 6,13,24**, the line side circuit (Fig. 2) comprises diode bridge 640 coupled to power supply 220 (Col 14 lines 15-35). This is further shown in either Fig. 6a or 6b with the diodes implemented with transistors.

As per claims 7,25, the power supply comprises third capacitor 645.

As per **claims 8,26,** the line side circuit monitors the telephone line (Col 21 lines 10-25) via Node A 134.

As per claims 14,16, they are rejected as per the claim 8 and 9 rejections.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

⁽a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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4. Claims 3,4,11,12,21,22, are rejected under 35 U.S.C. 103(a) as being unpatentable over Krone et al (7003023) as applied to claims 1,2,9,10,19,20.

As per claims 3,4,11,12,21,22, Krone discloses transmitting complementary, inverted (out of phase) clock signals to create a differential signal. However, Krone does not specify the duty cycle of the clock signals.

Complementary clock signals forming a differential signals would be inverted from each other, and as such, the 'on' duty cycle of one would track the 'off' duty cycle of the other.

Response to Arguments

1. Applicant's arguments have been fully considered but they are not persuasive.

As per applicant's argument that Krone does not disclose a clock signal, examiner disagrees. Krone discloses a digital signal being transferred across a digital isolation barrier differentially. Krone transmits a data signal with a decoding stage where the data clocking signal is recovered. However the original transmitted signal is used as a clock by the device which decodes the data clocking signal. Additionally, Krone also discloses that clock signals may be transmitted across digital isolation barriers. Examiner additionally contends that the 'data' being transmitted across the barrier could obviously be a clocking signal.

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2. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of

time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not

mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the

advisory action. In no event, however, will the statutory period for reply expire later than

SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Alexander Jamal whose telephone number is 571-272-

7498. The examiner can normally be reached on M-F 9AM-6PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Curtis A Kuntz can be reached on 571-272-7499. The fax phone numbers for

the organization where this application or proceeding is assigned are 571-273-8300 for

regular communications and 571-273-8300 for After Final communications.

Examiner Alexander Jamal October 20, 2007

MELUR RAMAKRISHNAIAH

PRIMARY EXAMINER